



ENTERED OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/076,708

DATE: 03/04/2002

TIME: 16:06:07

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03042002\J076708.raw

```

3 <110> APPLICANT: Sharma, Satish
4      Rank, Kenneth
6 <120> TITLE OF INVENTION: Assays for Accessing Aa-Tau Aggregation
8 <130> FILE REFERENCE: 6322
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/076,708
C--> 10 <141> CURRENT FILING DATE: 2002-02-15
10 <160> NUMBER OF SEQ ID NOS: 7
12 <170> SOFTWARE: PatentIn version 3.0
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 2796
16 <212> TYPE: DNA
17 <213> ORGANISM: Homo sapiens
19 <400> SEQUENCE: 1
20 cctccccctgg ggaggctcgc gttcccgctg ctgcgcgctg ccgcccgcgc gcctcaggaa      60
22 cgcgccctct cgccgcgcgc gccctcgcag tcaccgccac ccaccagctc cggcaccaac      120
24 agcagcgccg ctgccaccgc ccaccttctg ccgcgcgcac cacagccacc ttctcctcct      180
26 ccgctgtcct ctcccgctct cgctctgtgc gactatcagg tgaactttga accaggatgg      240
28 ctgagccccg ccaggagttc gaagtgatgg aagatcacgc tgggacgtac ggggtggggg      300
30 acaggaaaga tcaggggggc tacaccatgc accaagacca agaggggtgac acggacgctg      360
32 gcctgaaaga atctccccctg cagaccccca ctgaggacgg atctgaggaa ccgggctctg      420
34 aaacctctga tgctaagagc actccaacag cggaagatgt gacagcacc ttagtggtatg      480
36 agggagctcc cggaagcag gctgcgcgc agccccacac ggagatccca gaaggaacca      540
38 cagctgaaga agcaggcatt ggagacaccc ccagcctgga agacgaagct gctggtcacg      600
40 tgacccaagc tcgcatggtc agtaaaagca aagacgggac tggaaagcat gacaaaaaag      660
42 ccaagggggc tgatggtaaa acgaagatcg ccacaccgcg gggagcagcc cctccaggcc      720
44 agaagggcca ggccaacgcc accaggattc cagcaaaaac cccgcccgc tccaaagacac      780
46 caccagctc tggtgaaact ccaaaatcag gggatcgtag cggctacagc agccccggct      840
48 cccagggcac tcccggcagc cgctcccgca ccccgctcct tccaaccca cccacccggg      900
50 agcccaagaa ggtggcagtg gtcggtactc caccgaagtc gccgtcttcc gccaagagcc      960
52 gcctgcagac agcccccgctg cccatgccag acctgaagaa tgtcaagtcc aagatcggct      1020
54 ccactgagaa cctgaagcac cagccgggag gcggaaggt gcagataatt aataagaagc      1080
56 tggatcttag caacgtccag tccaagtgtg gctcaaagga taatatcaaa cagctcccgg      1140
58 gaggcggcag tgtgcaata gtctacaaac cagttgacct gagcaaggtg acctccaagt      1200
60 gtggctcatt aggaacatc catcataaac caggaggtgg ccaggtggaa gtaaaatctg      1260
62 agaagcttga cttcaaggac agagtccagt cgaagattgg gtccctggac aatatcacc      1320
64 acgtccctgg cggaggaaat aaaaagattg aaaccacaa gctgacctc cgcgagaacg      1380
66 ccaaagccaa gacagaccac ggggcggaga tcgtgtacaa gtcgccagt gtgtctggg      1440
68 acagctctcc acggcatctc agcaatgtct cctccaccgg cagcatcgac atggtagact      1500
70 cgccccagct cgccacgcta gctgacgagg tgtctgcctc cctggccaag cagggtttgt      1560
72 gatcaggccc ctggggcggt caataattgt ggagaggaga gaatgagaga gtgtggaaaa      1620
74 aaaaagaata atgacccggc ccccgccctc tgccccagc tgctcctcgc agttcggtta      1680
76 attggttaat cacttaacct gcttttgtca ctcggtttg gctcgggact tcaaaatcag      1740
78 tgatgggagt aagagcaaat ttcattcttc caaattgatg ggtgggctag taataaaata      1800

```

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/10/076,708

TIME: 16:06:07

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03042002\J076708.raw

```

80 ttttaaaaaaa aacattcaaa aacatggcca catccaacat ttcctcaggc aattcctttt 1860
82 gattctttttt tcttccccct ccatgtagaa gagggagaag gagaggctct gaaagctgct 1920
84 tctgggggat ttcaagggaac tgggggtgcc aaccacctct ggccctgttg tgggggttgt 1980
86 cacagaggca gtggcagcaa caaaggattt gaaaactttg gtgtgttcgt ggagccacag 2040
88 gcagacgatg tcaaccttgt gtgagtgtga cgggggttg ggtggggcgg gaggccacgg 2100
90 gggaggccga ggcaggggct gggcagaggg gaggaggaag cacaagaagt gggagtggga 2160
92 gaggaagcca cgtgctggag agtagacatc cccctccttg ccgctgggag agccaaggcc 2220
94 tatgccacct gcagcgtctg agcggccgcc tgtccttggt ggccgggggt gggggcctgc 2280
96 tgtgggtcag tgtgccaccc tctgcagggc agcctgtggg agaagggaca gcgggttaaa 2340
98 aagagaaggc aagcctggca ggagggttg cacttcgatg atgacctcct tagaaagact 2400
100 gaccttgatg tcttgagagc gctggcctct tcctccctcc ctgcagggtg gggcgctga 2460
102 gcctaggcgg ttcctctctg tccacagaaa ccctgtttta ttgagttctg aagggttgaa 2520
104 ctgctgccat gattttggcc actttgcaga cctgggactt tagggctaac cagttctctt 2580
106 tgtaaggact tgtgcctctt gggagacgtc caccggttcc caagcctggg ccaactggcat 2640
108 ctctggagtg tgtgggggtc tgggaggcag gtcccagacc ccctgtcctt cccacggcca 2700
110 ctgcagtcac ccgctctgcg ccgctgtgct gttgtctgcc gtgagagccc aatcaactgc 2760
112 tataccctc atcacacgtc acaatgtccc gaattc 2796
115 <210> SEQ ID NO: 2
116 <211> LENGTH: 441
117 <212> TYPE: PRT
118 <213> ORGANISM: Homo sapiens
120 <400> SEQUENCE: 2
122 Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
123 1 5 10 15
125 Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
126 20 25 30
128 Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
129 35 40 45
131 Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
132 50 55 60
134 Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
135 65 70 75 80
137 Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Gln Pro His Thr Glu
138 85 90 95
140 Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
141 100 105 110
143 Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
144 115 120 125
146 Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
147 130 135 140
149 Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
150 145 150 155 160
152 Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
153 165 170 175
155 Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
156 180 185 190
158 Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
159 195 200 205
161 Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys

```

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/10/076,708

TIME: 16:06:07

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03042002\J076708.raw

```

162      210      215      220
164 Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
165 225      230      235      240
167 Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
168      245      250      255
170 Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
171      260      265      270
173 Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
174      275      280      285
176 Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
177      290      295      300
179 Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
180 305      310      315      320
182 Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
183      325      330      335
185 Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
186      340      345      350
188 Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
189      355      360      365
191 Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
192      370      375      380
194 Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
195 385      390      395      400
197 Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
198      405      410      415
200 Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val
201      420      425      430
203 Ser Ala Ser Leu Ala Lys Gln Gly Leu
204      435      440
206 <210> SEQ ID NO: 3
207 <211> LENGTH: 1200
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 3
212 tgtcgactat caggtgaact ttgaaccagg atggctgagc cccgccagga gttcgaagtg      60
214 atggaagatc acgctgggac gtacggggtg ggggacagga aagatcaggg gggctacacc      120
216 atgcaccaag accaagaggg tgacacggac gctggcctga aagctgaaga agcaggcatt      180
218 ggagacaccc ccagcctgga agacgaagct gctggtcacg tgaccaagc tcgcatggtc      240
220 agtaaaagca aagacgggac tggaagcgat gacaaaaaag ccaagggggc tgatggtaaa      300
222 acgaagatcg ccacaccgcg gggagcagcc cctccaggcc agaagggcca ggccaacgcc      360
224 accaggattc cagcaaaaac cccgcccgtc ccaaagacac caccagctc tggatgaacct      420
226 ccaaatcag gggatcgtag cggctacagc agccccggct cccagggcac tcccggcagc      480
228 cgctcccgca cccgctccct tccaaccca cccaccggg agccaagaa ggtggcagtg      540
230 gtcggtactc caccgaagtc gccgtcttcc gccaaagacc gcctgcagac agcccccgctg      600
232 cccatgccag acctgaagaa tgtcaagtcc aagatcggct cactgagaa cctgaagcac      660
234 cagccgggag gcgggaaggt gcagataatt aataagaagc tggatcttag caacgtccag      720
236 tccaagtgtg gctcaaagga taatatcaaa caggtcccgg gaggcggcag tgtgcaaata      780
238 gtctacaaac cagttgacct gagcaaggtg acctccaagt gtggctcatt aggcaacatc      840
240 catcataaac caggaggtgg ccaggtggaa gtaaaatctg agaagcttga cttcaaggac      900

```

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/10/076,708

TIME: 16:06:07

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03042002\J076708.raw

```

242 agagtccagt cgaagattgg gtccctggac aatatcacc acgtccctgg cggaggaaat 960
244 aaaaagattg aaaccacaa gctgaccttc cgcgagaacg ccaaagccaa gacagaccac 1020
246 ggggcggaga tcgtgtacaa gtogccagtg gtgtctgggg acacgtctcc acggcatctc 1080
248 agcaatgtct cctccaccgg cagcatcgac atggtagact cgccccagct cgccacgcta 1140
250 gctgacgagg tgtctgcctc cctggccaag cagggtttgt gatcaggccc ctggggcggt 1200
253 <210> SEQ ID NO: 4
254 <211> LENGTH: 383
255 <212> TYPE: PRT
256 <213> ORGANISM: Homo sapiens
258 <400> SEQUENCE: 4
260 Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
261 1 5 10 15
263 Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
264 20 25 30
266 Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala
267 35 40 45
269 Gly Ile Gly Asp Thr Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val
270 50 55 60
272 Thr Gln Ala Arg Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp
273 65 70 75 80
275 Asp Lys Lys Ala Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro
276 85 90 95
278 Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg
279 100 105 110
281 Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly
282 115 120 125
284 Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser
285 130 135 140
287 Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro
288 145 150 155 160
290 Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys
291 165 170 175
293 Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met
294 180 185 190
296 Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu
297 195 200 205
299 Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu
300 210 215 220
302 Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys
303 225 230 235 240
305 His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp
306 245 250 255
308 Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His
309 260 265 270
311 Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe
312 275 280 285
314 Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His
315 290 295 300
317 Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe

```

RAW SEQUENCE LISTING

DATE: 03/04/2002

PATENT APPLICATION: US/10/076,708

TIME: 16:06:07

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03042002\J076708.raw

```

318 305          310          315          320
320 Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr
321          325          330          335
323 Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn
324          340          345          350
326 Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala
327          355          360          365
329 Thr Leu Ala Asp Glu Val Ser Ala Ser Leu Ala Lys Gln Gly Leu
330          370          375          380
332 <210> SEQ ID NO: 5
333 <211> LENGTH: 2529
334 <212> TYPE: DNA
335 <213> ORGANISM: Homo sapiens
337 <400> SEQUENCE: 5
338 cctccccctgg ggaggtctgc gttccccgtg ctgcgcgctg ccgccccgcg gcctcaggaa      60
340 cgcgcctct cgcgcgcgc gccctgcag tcaccgccac ccaccagctc cggcaccaac      120
342 agcagcgccg ctgccaccgc ccaccttctg ccgcgcgccac cacagccacc ttctctctct      180
344 ccgctgtctt ctcccgctct cgcctctgtc gactatcagg tgaactttga accaggatgg      240
346 ctgagccccc ccaggagttc gaagtgtatg aagatcacgc tgggacgtac ggggtggggg      300
348 acaggaaaaga tcagggggggc tacaccatgc accaagacca agaggggtgac acggacgctg      360
350 gcctgaaagc tgaagaagca ggcatggag acacccccag cctggaagac gaagctgctg      420
352 gtcacgtgac ccaagctcgc atggtcagta aaagcaaaga cgggactgga agcgatgaca      480
354 aaaaagccaa gggggctgat ggtaaaaaga agatcgccac accgcgggga gcagcccctc      540
356 caggccagaa gggccaggcc aacgccacca ggattccagc aaaaaccccg cccgctccaa      600
358 agacaccacc cagctctggt gaacctccaa aatcagggga tcgcagcggc tacagcagcc      660
360 ccggtctccc aggcactccc ggcagccgct cccgcacccc gtcccttcca accccaccca      720
362 cccgggagcc caagaagggt gcagtgggtc gtactccacc caagtgcgcg tcttccgcca      780
364 agagccgcct gcagacagcc cccgtgccca tgccagacct gaagaatgtc aagtccaaga      840
366 tcggctccac tgagaacctg aagcaccagc cgggaggcgg gaaggtgcaa atagtctaca      900
368 aaccagttga cctgagcaag gtgacctcca agtgtggctc attaggcaac atccatcata      960
370 aaccaggagg tggccagggt gaagtaaaat ctgagaagct tgacttcaag gacagagtc      1020
372 agtcgaagat tgggtccctg gacaatatca ccacgtccc tggcggagga aataaaaaga      1080
374 ttgaaaccca caagctgacc ttccgcgaga acgcaaagc caagacagac cacggggcgg      1140
376 agatcgtgta caagtgcga gtggtgtctg gggacacgtc tccacggcat ctgagcaatg      1200
378 tctctctcac cggcagcate gacatggtag actgcacca gctcgccacg ctagtgcag      1260
380 aggtgtctgc ctccctggcc aagcagggtt tgtgatcagg cccctggggc ggtcaataat      1320
382 tgtggagagg agagaatgag agagtgtgga aaaaaaaga ataatgacct ggccccgcgc      1380
384 ctctgcccc agctgtctct cgcagttcgg ttaattgggt aatcacttaa cctgcttttg      1440
386 tcaactcggt ttggctcggg acttcaaaat cagtgtatgg agtaagagca aatttcatct      1500
388 ttccaaattg atgggtgggc tagtaataaa atatttataa aaaaacattc aaaaacatgg      1560
390 ccacatccaa catttctca ggcaattcct tttgattctt ttttcttccc cctccatgta      1620
392 gaagaggagg aaggagaggc tctgaaagct gcttctgggg gatttcaagg gactgggggt      1680
394 gccaaccacc tctggcctct ttgtgggggt tgtcacagag gcagtggcag caacaaagga      1740
396 ttgaaaact ttggtgtgtt cgtggagcca caggcagacg atgtcaacct tgtgtgagtg      1800
398 tgacgggggt tgggggtggg cgggaggcca cgggggaggc cgaggcaggg gctgggcaga      1860
400 ggggaggagg aagcacaaga agtgggagtg ggagaggaag ccacgtgctg gagagtagac      1920
402 atccccctcc ttgcgctggt gagagccaag gcctatgcca cctgcagcgt ctgagcggcc      1980
404 gcctgtctct ggtggccggg ggtggggggc tgctgtgggt cagtgtgcca ccctctgcag      2040
406 ggcagcctgt gggagaaggg acagcgggtt aaaaagagaa ggcaagcctg gcaggagggt      2100

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/076,708

DATE: 03/04/2002

TIME: 16:06:08

Input Set : A:\Ep.txt

Output Set: N:\CRF3\03042002\J076708.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date